Spring 2013

sosnews

Informative bulletin for current and future customers

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TRACO POWER

New design technology with increased efficiency and optimized thermal management and the use of best grade components afford the design of highest power density DC/DC-converters.

TRACOPOWER introduces three new series of most compact isolated DC/DC-converters for high performance applications.

- Highest efficiency across full load range
- Fully regulated output voltages
- 1500 VDC I/O-isolation
- Remote On/Off control

6 Watt in SIP-8 Package

TMR-6 Series
2:1 input voltage range

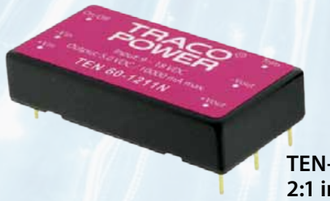
TMR-6 Series
4:1 input voltage range

30 Watt in 6-side shielded 1" x 1" metal package

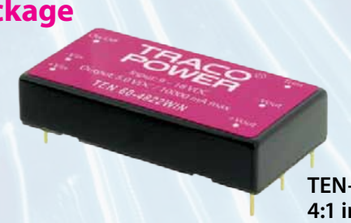
THN-30 Series
2:1 input voltage range

THN-30WI Series
4:1 input voltage range

60 Watt in 6-side shielded 1" x 2" metal package



TEN-60N Series
2:1 input voltage range



TEN-60WIN Series
4:1 input voltage range

www.soselectronic.com

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Do we listen enough?

Dear friends,
I remember that two years ago I finished my first editorial with words „I am listening to you!“ So why do not start where I have finished and review the two-year period?

At the beginning of the new era there was a commitment to look at everything through the customers‘ eyes, ask a lot of questions and listen to you. Because our inspiration is you and your real needs and problems. During these two years we have created many new support services and we have to admit that majority of them were either directly or indirectly your ideas. Whether I mention popular technical Pizza workshops, own technical articles, new tailored newsletter, SOS cinema, PREMIUM loyalty program, unique Solutions Catalogue or new OnlineShop. You took part in all of this at the beginning and therefore we want to thank you. And with the next breath we want to say that we will not stop… :-) We prepare for you technical webinars, new service for the support of free promotion of your products, professionalism on higher level but also more emotions. Because emotions are human. We all are people and human approach will always be important in our company.

We will be glad if our effort will be successful and we will be seen as a complex distributor who helps you not only with effective supply of components for your production but perceives your business as a whole. That means that we want to help you to be more effective in the area of:

1. product development = with our technical support and appropriate selection of components we can shorten the time necessary for development,

2. purchasing and production = with simple individual communication with us and with reliable supply of production material in an appropriate quality and price,

3. sale of your products = support with the promotion of your products on the market.

And how should you benefit from it? We believe that the overall profit from your products is more important for you than the cheapest components bought. All can be summed up in one sentence of our customer after one of Pizza workshops: „During this day you have saved me a month of development.“ Who gets more? ;-)

And how do you look at all of that? Do we listen enough? Do you perceive our/your SOS electronic this way, too? You can share your observations and feelings on my email talarovic@soselectronic.com, I will be glad. You know it: „I am listening to you.“ :-)

Rastislav Talárovič
marketingový manažér

Alpha

Read your SOS news with phone!
This SOS news issue can be read through technological innovations - via QR codes. Each article contains a picture in which is encrypted web site address to this article

- **Slovak Republic:** SOS electronic, s.r.o., Pri prachárni 16, 040 11 Košice, tel.: 055/786 04 15, fax: 055/786 04 45, www.soselectronic.sk.
- **Czech Republic:** SOS electronic, s.r.o., Hybešova 42, 602 00 Brno, tel.: 543 42 71 11, fax: 543 42 71 10, www.soselectronic.cz.
- **Hungary:** SOS electronic Kft., József Attila út 74. 3527 Miskolc, tel.: +36/46/501-380, fax: +36/46/501-389, www.soselectronic.hu.
- **Germany:** SOS electronic Deutschland GmbH, Klaus-Conrad-Str. 1, 92242 Hirschau, tel.: +49 8144 97 11, fax: +49 8151 74 48 26, www.soselectronic.de
- **Poland:** SOS electronic, ul. Tatarkiewicza 17, 92-753 Łódź, tel.: +48 42 648 45 76, fax: +48 42 648 45 76, ww.soselectronic.pl
- **Romania:** SOS electronic, str. Icoanei nr. 84, bloc A, 020459 Bucureşti, tel.: + 40 311 020 475, fax: +40 311 020 476, www.soselectronic.ro

We strengthen our team

Jozef Jarábek – purchasing manager

I come from Prešov where I studied and currently live. I joined SOS team on June 1, 2013 as a purchasing manager. In the past I worked for a company dealing with electronic devices where I was responsible for the purchasing of electronic components over the course of the last 3 years. I am glad that I can continue in the field of electronics and with work that fulfills me.

Rita Spindler – sales support assistant

I have been working for SOS since 1.1.2013. For the last 10 years I worked for the international distributor of electronic components. Now I use my experience for SOS customers on German and Austrian market. I am looking forward with my new team to accept the challenge to promote SOS electronic brand on the market since SOS electronic provides me and customers optimal possibilities for it.

Vendula Malá – junior sales officer

I already came into contact with SOS electronic during my studies at Masaryk University in Brno. In those times I was regular holiday reinforcement. In September I became a member of SOS team. I am responsible for receiving of orders and developing price lists for current and future customers and I also keep regular contact with them using telemarketing.
I like literature, theatre, history, travelling and searching for the beauties of native land and exploring foreign countries.

With our new Solutions Catalogue
you save time more than once!

10th issue of our catalogue is different! Inspiration for the development, fast searching, connection to online content, ... It is only a couple of innovative contributions for the effective work with it.

You certainly are familiar with the following saying: **Time is money!** The more time you have, the richer you are… **With our new Solutions Catalogue you save your time more than once:**

1. More complex overview on the half number of pages

We have prepared a modern catalogue which introduces our offer of electronic components in a complex way. In comparison with our previous editions we have released not up-to-date information and amended new technical parameters and recommendation. So you get more complex information on the half number of pages.

2. Fast searching

You can find the whole sortiment of our products in the transparent picture scheme on two pages (p. 12-13). This scheme represents imaginary „doorman" who will guide you to the correct chapter. If you are searching for concrete brand or producer, you can easily find your way through the index of brands (p. 14-17).

3. Fast comparison of technical parameters

The majority of our products are classified into transparent table with technical parameters. Just with a quick look you can read and compare the necessary parameters and select the suitable type of component.

4. Simple connection to online content

In order to provide you with the fast access to the most up-to-date information, we have created several ways of connection of paper catalogue with our web. You can use individual QR codes or key words for search engine on our web site.

5. Inspiration for the development on one place

Every chapter has its general introduction which describes different solution possibilities in a given area. For example, in the introduction of communication, concrete possibilities and types are described (GSM, GPRS, GPS, Bluetooth, LAN, WiFi, RFID, ZigBee, USB, RS485, 434/868 MHz RF, …).

Written about us: You saved me a month of development or a change is in people

Server HW.cz about us: You saved me a month of development or a change is in people

The article about technical support in SOS electronic, which was issued in autumn, initiated a discussion about customers' experiences with services of this company. Negative and also positive comments concurred in fact that SOS has positively changed a lot in recent years. What lies behind this change? We asked the CEO - Ján Seszták.

From the opinions of HW server readers we have noticed the favorable response to the changes in your services. Can you tell us something about the history?

The change of SOS electronic occurs on several levels. First in order was an economic issue. We understood that if our company wants to attract customers on the markets in Czech Republic, Poland, Hungary and other countries where we operate, we have to ensure the competitiveness and a unified service to a certain extent. Equally important was the question as to how we can differ from other distributors. We put our effort into personal approach towards our customers, what seems to be the easiest solution.

What is the unification of your services?

Surely it is a matter of order system and the logistic chain. The way of order processing and the deadlines for its fulfillment are the basis of our business. The parameters set give certainty to our customers, the whole business and technical support. When a trader receives an order, s/he has to know that the goods will actually be sent next day at 11 o'clock to the customer because the trader is a person who guarantees that a customer gets what a company promises. This was also one of the impulses which led to the fact that we have centralized the warehouse and shipping and we abandoned the conception of branch stores. Customers recognized the change immediately. We could get rid of one unnecessary step between our purchase and their sent parcel, which has nothing to do in the system „until the next day".

How can you add a personal touch at this pace?

You know, the customer does not always need only what we have in our stock. For example, a production company buyer has a classic BoM (Bill of Material), the schedule according to which s/he starts to buy for a new product. Due to the production cycle of board fixing, cooperation with cooperators and other factors, s/he has to ensure that the right material will be in the right place at the right time. This is the moment when the computers and order systems are not sufficient. We do not hide behind the components and say „it is not possible". We are looking for a way forward and try to be maximally customer-friendly, of course, to a reasonable extent. Thanks to our technical support we can avoid many stressful situations when we consult the optimal component composition with our customers already in the design stage. This ensures them smooth material supply throughout the product life cycle.

We do not support only buyers and their needs. We also take care of developers whom we (during our free trainings) together with producers show how the circuits can be designed more efficiently and faster. Sometimes it happens that a customer encounters a problem which neither he himself, nor our technical support can manage. In such case we are able to arrange a visit of a technical representative of the producer directly at customer's place. In our opinion, this is how a personal and human approach, also in such a technical sector as electronics is, should look like. Moreover, it is a step which is not offered by every distributor. It is logical that partners can appreciate a shift of the relationship between customer and supplier to the level of partnership. From our own long-term experience we can say that it is really worth it.

And what keeps customers from using your technical support and finally ordering somewhere else, where they find lower price?

Nothing. But let me ask you, when a problem with a purchase occurs, how will the cheapest distributor advise and help? Will s/he deal with your problem with the same empathy? And will s/he help you with the development of other applications? These are the questions that you have to be able to answer before the purchase. Last year during one of our workshops a customer told us that we saved him a month of development. Who gets more? The one who saves few cents for a component or the one who saves thousands needed for the development?

Is there anything else that you would like to share with our readers?

I will be happy if they take one important thought from this interview. Today the winner is not the one who produces the cheapest, but the fastest one wins. Time is money. And therefore, do not focus on the cheapest material only, but also on the total costs which you would need to develop the product and launch it on the market. We can see many times how many unnecessary hours of development and how many blind alleys a company must go through in the name of the cheapest product design. Isn't it better to shorten this time and cut the total costs with proper selection of components and external technical support? You can try it with us and we will try to help you!

Thank you for the interview.

Source: www.hw.cz

The article with more information can be found at our website. Decode the link by QR code.

Don´t you want to solder leads to PCBs anymore? Mini PCB connectors will solve it.

Miniature PCB connectors from company Phoenix Contact bring a surprisingly simple manipulation and they occupy only a minimum of space.

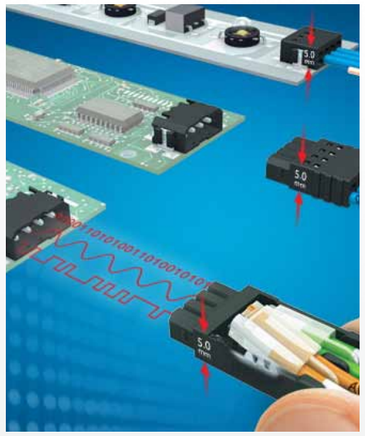
Small dimensions, reliable contact, simple usage and up to 6A current are main properties of new Phoenix Contact connectors PTSM, PTPM and PTQ series from the Combicon HD family. Especially at high-volume production batches it is very important to reach a fast and precise cables assembly - and if possible - resistant to mistakes arising from lower attention of workers. New connectors meet these requirements very well and for example th PTQ series requires **only to push in an insulated wire and close the lever (upper portion of the connector).** Four new series, which can be found in our portfolio are:

• PTQ	• PTPM	• PTSM	• PTSM
• PTQ - IDC wire-to-board connector for extremely simple connection of wires to a PCB. All that is necessary is to push in an Ethernet cable or other 0.14/0.34 mm2 cable and to close the lever (upper portion of the connector - without stripping an insulation, without cutting and without any tools. No tools are necessary even to release the wire - only open the actuation lever. Maximum current up to 4A/160V, 2.5 mm pitch, 8mm height.	•(PTPM-x/x-P-2,5) a miniature, only 5mm high wire-to-board connector, consisting of 2 parts (socket + header). PTPM connects wires without stripping an insulation (IDC). It is ideal for Ethernet cables and other wires of 0.14/0.34 mm2 (AWG 22-26) diameter - depending on a type. Maximum current 2-4A/160V, 2.5 mm pitch. Number of poles is always even (2-4-6-8-10).	• a connector similar to PTPM series, but the cable termination is screwless (push-in) via a spring contact. That enables to use up to 0,75 mm2 conductors - solid but also stranded wires.	• - (PTSM -x/x-2,5-H, resp PTSM-x/x-2,5-V) terminals for a direct connection of wire conductors to a PCB (THT and SMT version).

Plug-in connectors of PTPM and PTSM series use the same headers (PTSM-x/x-HH-2,5, resp PTSM-x/x-HV-2,5), what further increases their variability. Headers are available in THT as well as SMT versions (horizontal and also vertical). These new miniature connectors are universally usable for power supply, data and analog signals, connection of LED panels and other. All 4 series are being supplied in tapes (TR) enabling a machine insertion to a PCB.

Advantages / Features:

1. universal PCB connectors
2. miniature dimensions
3. extremely simple usage
4. the way of usage significantly decreases error rate at connecting of cables
5. 2-8 poles (PTPM up to 10 poles)
6. suitable for Ethernet (CAT5e), mixed-signal, power supply and other
7. usage up to 2-6A/160V (depending on a type)
8. SMD and also HT versions
9. horizontal and vertical versions



Gain a free sample of PTSM and PTQ connectors!

Describe to us, in which application you´d like to use these new connectors. We have PTSM-0,5/3-2,5-V-THR-R44 and PTQ0,3/2-2,5THR samples ready for you.
Let us know at samples@soselectronic.com.

The article with more information can be found at our website. Decode the link by QR code. The article contains also related video.

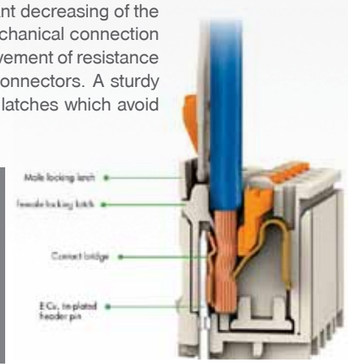
Order no.	Type	Description	Guide price
127399	PTPM-0,4/2-P-2,5	Connector F for cable,IDC 2P 0,34mm2 RM2,5	1,10 €
126748	PTQ0,3/2-2,5THR	Terminal block PCB/cable 2P 4A 0,34mm2 RM2,5	0,80 €
127424	PTSM-0,5/2-HH-2,5-SMD-R32	Connector M SMD,horiz.2P RM2,5	0,70 €
127403	PTSM-0,5/2-P-2,5	Connector F for cable,PUSH-IN 2P 0,5mm2 RM2,5	0,95 €

Small "big" connectors – Wago picoMAX

New family of conectors picoMAX from company Wago is substantially lower than traditional connectors and it is extremely resistant to vibrations.

picoMAX is a vast system of connectors with spring contacts for „wire-to-board", „wire-to-wire", „board-to--wire" but also „panel-feed-through" connections with very compact dimensions and universal usage, with pinov 3.5mm, 5.0mm and 7.5mm pitch. The biggest construction novelty of the picoMAX series is a new substantially changed design in comparison to a traditional design. New design of a pin+socket contact bridge enabled a significant decreasing of the connector´s height and at the same time a perfect mechanical connection of both parts to each other. It means a significant improvement of resistance to vibrations (up to 20g) in comparison to common connectors. A sturdy connection is further supported by integrated locking latches which avoid disengagement caused by vibrations

A new construction resulted in a very short path for an electric signal, what means a lower contact resistance (contact bridge and pins are from a tin-plated electrolytic copper) and a higher reliability. An absolute reliability of the contact is ensured even at high temperatures, thanks to an innovative clamp technology and an insulation material based on glass fiber reinforced PPA (polyphtalamide). As we might expect at Wago mark - connecting of wire conductors is simple, without specialty tools (only a usual screwdriver is necessary to release a wire) and in praxis there´s no limitation regarding the type or termination of a wire conductor (solid, stranded, fine-stranded, with ferrules, …).



A big plus of the picoMAX series is a diversity. With the picoMAX series we can be sure, that in this family we´ll find mutually compatible types for all connections. Simple and at the same time sophisticated system of coding enables to ensure a correct installation, for example in applications with several connections on one place. Despite of a vast amount of combinations of various connectors, the picoMAX system features a simple and an intuitive application.

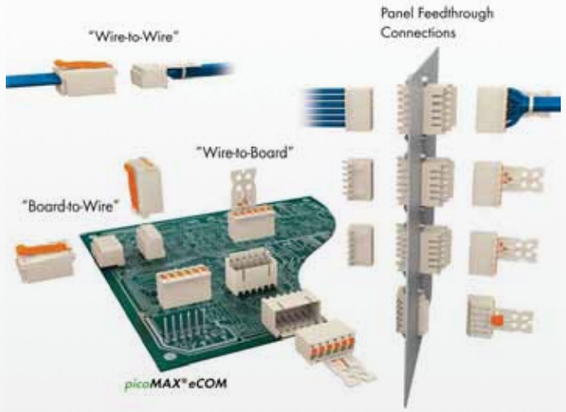
picoMAX is also available in the „picoMAX eCOM" version - a PCB terminal block, which can also be used as a removable connection (plug-in). It is even more compact and economical version with pins without a plastic housing, suitable for applications in which you don´t need all advantages of the picoMAX system.

3,5mm pitch version (2091-xx) is for wire conductors 0,2-1,5 mm2/10A, 5.0mm pitch version (2092-xx) is for wire conductors 0,2-2,5 mm2/16A/250-630V. 7,5mm pitch version (2092-xx) has similar properties as the previous one, but it has a higher nominal voltage (400-1000V).

Gain a free sample of picoMAX connectors! Describe to us, in which application you´d like to use these new connectors. We have samples ready for you.
Let us know at samples@soselectronic.com.

Advantages / Features:

1. entire system of connectors with CAGE CLAMP ® S spring contacts
2. brand new design with a radically decreased height
3. highly vibration-proof - up to 20g
4. simple and intuitive installation
5. available in 3.5mm, 5.0mm and 7.5mm pitch
6. for solid and stranded wires 0,2-2,5 mm2 (to 1,5 mm2 for 3.5mm pitch versions)
7. available in many versions
8. extra wide operating range -60 to +100°C
9. connector housing from glass fiber reinforced PPA
10. also usable on a DIN rail by an adapter
11. test port for a 1mm testing pin



The article with more information can be found at our website. Decode the link by QR code. The article contains also related video.

Order no.	Type	Description	Guide price
129872	WAGO2091-1122	Connector picoMAX 3.5 F 2P, cable 1,5mm2	0,80 €
129888	WAGO2091-1402	Connector picoMAX 3.5 M 2P, PCB vertical	0,31 €
129947	WAGO2091 -1155	Connector picoMAX eCOM 3.5 5P cable+PCB vertical, grip	2,40 €
129954	WAGO2091-1374	Connector picoMAX eCOM 3.5 4P cable+PCB horizontal	1,50 €

Our latest news...

Elektro Automatik power supplies will manage even kiloWatts

Programmable DC, AC, current and high-voltage power supplies, electronic loads, UPS, inverters and chargers of low and high power - it is Elektro Automatik.

Wago TOPJOB ® S - nowadays standard in installations?

DIN rail terminal blocks using the CAGE CLAMP®S spring clamp bring a simpler installation even without tools and up to 30% saving of space.

Trumeter will count it to you!

Ready-made counters, panel meters and time relays from company Trumeter significantly simplify development of applications where we need such modules.

NAC3 power supply connectors - an ideal solution for mobile applications

Series NAC3 from company Neutrik represents robust 3-pole connectors providing fast and secure connections up to 20A/250V AC.

Miniature SMT antennas 2J are able to cover several bands

GSM, DCS, PCS, UMTS, 434/868 MHz, GPS, TETRA and many other signals are no problem for small ceramic antennas from company 2J.

EA DIP displays - a free hand at a choice of a character or graphic display

EA DIP series displays from company Electronic Assembly provide an uncommon possibility to choose a graphic or a character display without a change of your device´s hardware.

Blow the dust away safely with the Dust off spray

Heat and arcing won´t represent a threat to your health. Dust-off sprays will displace dust simply and efficiently even in harsh environment and from hard-to-reach places.

HAMMOND 1553T enclosures - keyboard and display in your hand

In the Hammond 1553 enclosures series now can be found also types with a sufficient space for a keyboard and display.

Enhance your device with ethernet while you wait

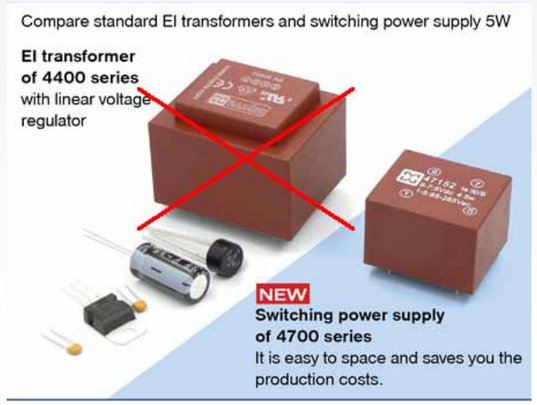
For ten of you, we prepared samples of the Lantronix xDirect module. It is a complete solution of Ethernet connectivity of a serial device to LAN - directly, without intervention to a device.

Sunon LA003 cooling module - the right choice for high-power LEDs

10, 20, 30W LED modules are no rarity anymore and the question how to cool them and to maintain an aesthetic aspect is still more actual.

12 new types of Myrra 47000 on stock

Because of a growing interest in switch-mode AC/DC modules Myrra 47000 series, you can find another types in our stock immediately available.



Switch-mode power supplies (AC/DC converters) replace classic transformers in many segments, mainly because of an excellent efficiency, low standby losses and last but not least - significantly lower weight. Moreover, Myrra 47000 series is very easily applicable thanks to a package with leads for soldering into a PCB. This solution saves place, because it replaces a transformer, rectifying bridge, filtering capacitors and a voltage regulator.
Because of a big interest, we included to standard stock types another 12 types: 47114, 47123, 47124, 47125, 47132, 47133, 47136, 47163, 47164, 47166, 47247 and 47255. As you can see from the datasheet, these are the types with single but also dual output voltages. At the same time, there are also types marked as „NR“ - non-regulated. However, even these types provide a partially regulated voltage (+-5% at full load). A main difference in comparison to regulated types is a higher output voltage at a low load (0 … +30%). An advantage is that they offer somewhat higher power than regulated versions (3.2 / 5.4W vs. 2.5 / 5W).

The article with more information can be found at our website. Decode the link by QR code.

Order no.	Type	Description	Guide price
101290	MYRRA_ACDCS2,5W3,3V	AC/DC module PCB 85-264VAC/3,3VDC/750mA	6,65 €
101297	MYRRA_ACDCS4,5W5V	AC/DC module PCB 85-264VAC/5,0VDC/900mA	6,83 €
101299	MYRRA_ACDCS5W12V	AC/DC module PCB 85-264VAC/12,0VDC/420mA	6,95 €

Friwo drivers not only drive your LEDs but even control them ...

LT series LED drivers with 10-100W power represent a complete solution with wide possibilities of control. Exceptionally narrow and slim design, remained even at high-power versions, provides a high flexibility of use.

Power supplies for LED lighting (so called drivers) are available from many producers, in a various qualitative level. Why to decide just for the LT series from German company Friwo? Here are few reasons:

- **precise design, safe operation and a long lifetime**
- **high efficiency and a possibility of dimming in a range of 0-100% directly via a CTRL pin**
- **modules are available in 10-100W power, with a possibility of customization by laser directly at production**
- **also available a module for dimming - so called DIMMbox, further expanding possibilities of control (switch, 1-10V, DALI) and with a possibility of synchronization with up to 1000 slave units**
- **very small cross section of modules (21x30mm, resp. 24x30mm at LT100) - applicable even in very tiny conditions**

Wide control possibilities of LT series modules are perhaps the most interesting. Modules contain a galvanically isolated CTRL input, by which it is possible to switch on/ off the module without disconnecting from 230V mains. CTRL pin also serves for regulation of an output current. Further possibilities of control are provided by a standalone additional module DIMMbox. DIMMbox operates as an (almost) lossless PWM regulator with a MOSFET switched at f=600Hz. DIMM-BOX connected to any series LT driver enables to regulate an output current in a range of 10-100% or 0% (OFF) via a usual switch („switch-dimm“ mode), via a linear voltage 1-10V and also a DALI interface.

The article with more information can be found at our website. Decode the link by QR code.

Order no.	Type	Description	Guide price
120601	FRIWOLT10-16/700	LED Driver IP20/cc 16V/700mA	12,60 €
120603	FRIWOLT20-28/700	LED Driver IP20/cv/cc 5-28V/700mA	16,08 €
120652	FRIWOLT100-24/4150	LED Driver IP20/cv 24V/4168mA	51,60 €

Supply your devices even in the desert

Small photovoltaic modules of the SMH series will reliably solve the power sourcing of low-power devices.

With modern components, it´s no problem to design devices with power consumption in units of mA and less. That´s why already one small solar module combined with a backup battery or a supercapacitor often solves power sourcing of devices intended for usage in places without electric energy.

SMH series belongs to a segment of small solar modules primarily intended to be built-in to target devices - measuring systems, sensors, communication devices, ... High quality construction and a high reliability predestine for various industrial devices. Power in a range of 407-1023 mW is sufficient for many applications including various control units.
SMH3, SMH4 and SMH8 are made of monocrystalline silicon with a UV resistant encapsulation of the IP65 class, optimized for outdoor use (polyurethane, 1.8mm overall thickness of module). As already their name says, they consist of 3,4 or 8 cells, what results in an output voltage of 1.65V, 2.2V or 4.4V. Leads are constructed as soldering pads on a rear side of modules. All modules are 100% electrically and optically tested. Color of modules is dark blue (almost black).

The article with more information can be found at our website. Decode the link by QR code.

Advantages / Features:

1. small solar modules from monocrystaline silicium
2. high quality, UV-resistant encapsulation
3. 407-1023mw power, depending on a type
4. suitable for various target devices

Order no.	Type	Description	Guide price
128021	SMH3-1060EP	PV panel 1,65V/620mA 60x100mm 1023mW	18,00 €
128023	SMH4-0380EP	PV panel 2,2V/185mA 41x67,5mm 407mW	11,46 €
128024	SMH8-0450EP	PV panel 4,4V/95mA 41x67,5mm 418mW	12,36 €

Quectel L16 – a more exact localization with a double amount of satellites

L16 module supports system GPS, but also the Russian GLONASS, thus enabling to use almost a double amount of satellites for a better accuracy and higher accuracy even in urban conditions.

Quectel L16 based on Teseo II engine from STMicroelectronics, belongs to first modules supporting both navigation systems. What does it bring? - above all a substantially higher probability of a fast fixing (first fix) even in a dense build-up area or in other conditions inconvenient for reception of satellite signals. A possibility to use signal of both systems enables to increase localization accuracy up to approx. 1.5m. With 32 tracking channels and 2 fast acquisition channels, L16 can acquire and track any mix of GPS and GLONASS signals.

Thanks to the fact, that both systems operate at near frequencies, only one antenna is sufficient for reception. L16 supports passive and active antennas and the power supply voltage for an active antenna can be fed directly through the RF_IN pin. Quectel L16 features all properties for successful utilization in praxis, and also small dimensions and an easily applicable SMT package.

Advantages / Features:

1. GPS / GLONASS L1 module
2. almost double amount of visible satellites improves acquisition speed, accuracy and reliability
3. 32 tracking channels, 2 fast acquisition channels
4. supports passive and active antennas
5. <1.5m position accuracy
6. UART port for easier application development

The article with more information can be found at our website. Decode the link by QR code.

Order no.	Type	Description	Guide price
120601	L16	GPS/GLONASS module 22.4x17x3.0mm, 2xUART, 28-pin SMD	21,24 €
120603	L16EVB KIT	EVB KIT for L16 including module	49,90 €

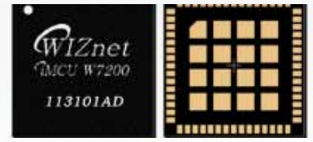
W7200 brings TCP/IP and ARM Cortex M3 in one chip

We introduce to you a novelty from company WIZnet - chip iMCU W7200, which is a combination of a well-proven „hardwired“ TCP/IP solution W5200 and the ARM Cortex M3 chip. The result is a powerful chip providing a fast and stable TCP/IP connection with a minimum loading of an ARM processor.

Advantages / Features:

1. ARM Cortex M3 (ST) integrated with the Hardwired TCP/IP chip
2. TCP, UDP, ICMP, IPv4 ARP, IGMP, PPPoE, Ethernet
3. ADSL connection with the PPPoE protocol

Company WIZnet specializes on TCP/IP solutions which offload the main processor of an application. In applications requiring a high computing power, it is naturally convenient to have available a maximum computing power of the processor and not to load it with tasks, which can be done via additional circuits. However, how to make it with minimum development effort and even to save a PCB space? The solution is the iMCUTM chip. iMCU series - Internet MCU, provide a fast Internet through an „on-the-fly“ architecture and quick algorithms. W7200 supports all common protocols like TCP, UDP, ICMP, IPv4 ARP, IGMP, PPPoE, Ethernet and also an ADSL connection.



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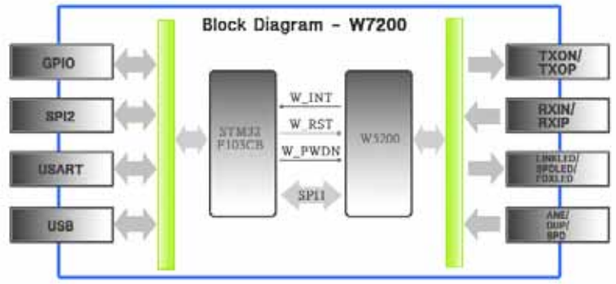


Order no.	Type	Description	Guide price
125309	W7200	ARM32bit Cortex M3 with hardwired TCP/IP, MAC & PHY	11,45 €
125310	IMCU7200EVB	Evaluation Board for W7200 (Cortex-M3 + W5200 core)	116,90 €

Sonitron – piezo transducers, which you can rely on

35 year experience in development and production of piezo components reflect in a quality of products of this Belgian company.

If you´re searching for a piezo transducers, buzzer, siren or a loudspeaker with a high efficiency and a high reliability, you´re on the right address. Narrow specialization, long-term know how, many patents and an own “in-house” production make the company Sonitron a European leader in a segment of piezo components.
An absolute majority of Sonitron components is resistant to harsh environment, dust and gases. In the offer we can find many types usable in critical applications (medical, military and other). Thanks to this fact, Sonitron also supplies such customers like for example NATO, Volvo and AirBus.
Directly from our stock, we´re able to provide you with many piezo components - piezo elements (transducers, without a driver) but also with drivers (sirens, buzzers) usually working in a very wide voltage range (for example 2-35V).

Advantages / Features:

1. top specification and a high reliability
2. resistant to harsh environment, dust, water and gases
3. also suitable for explosive environment

The article with more information can be found at our website. Decode the link by QR code. The article contains also related video.

Order no.	Type	Description	Guide price
64085	SMA-13-P7,5	Buzzer 14x6,5mm RM7,5 1,5-24V 75dB 3,0kHz	2,54 €
64094	SMAT-13-S	Piezo Element SMD 14x6,5mm 0-30VAC 0,8-5,0kHz	2,75 €
64101	SAS-2154-S-W-MB3	Siren "SWEEP" 6-15VDC, 105dB, IP67, cable	16,56 €
64102	SC 235 AF	Buzzer 36,5x26mm 2-35V 73dB 2,5kHz IP67 fast.4,8	14,16 €

RFID DESFire EV1 – one card for more applications

RFID system DESFire EV1 enables substantially more than only an identification. Access systems, public transportation, loyalty programs, those are only few examples of usage of this system.

Advantages / Features:

1. DES,2KDES, 3K3DES a AES kryptovacie algoritmy
2. karty umožňujú použiť až 28 aplikácií
3. antikolíznosť
4. vysoká rýchlosť prenosu až do 848 kBit/s
5. unikátne 7 bytové sériové číslo
6. flexibilná štruktúra súborov (voľba 5 typov súborov)
7. 2/4/8-Kbyte EEPROM s rýchlym programovaním

Similarly like every system has its hierarchy, even in the RFID can be found simpler but also more sophisticated technologies. DESFire EV1 working at the 13,56 MHz frequency belongs to a top in an RFID, that´s why it can be found mainly in payment systems, public transportation and other areas, where fast read/write on the card, various applications on the card and mainly highly secure communication are beneficial. An advantage of the system is also its anti-collision design - important in the case, when several cards are in the range of a reader. Relatively big memory (2, 4 or 8 kB) enables to store a considerable amount of data in various files. DES/2K3DES and mainly 3K3DES and AES encrypting algorithms takes care for a secure communication. New DESFire cards in our portfolio DESFIREEV14KISO and DESFIREEV18KISO are suitable for all Mifare/DESFire readers like for example SL040A

The article with more information can be found at our website. Decode the link by QR code.

Order no.	Type	Description	Guide price
114342	DESFIREEV18KISO	Mifare DESfire EV1 8kb ISO Card 13.56MHz	5,40 €
124308	DESFIREEV14KISO	Mifare DESfire EV1 4kb ISO Card 13.56MHz	4,00 €

„Plug´n´play" desktop RFID modules with a USB interface

RFID modules SL102 and SL500A are readily usable and provide many useful functions.

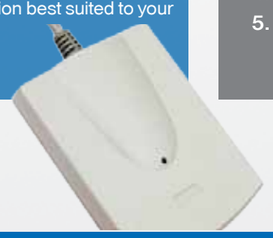
Similarly like in other segments of electronics, even at RFID you have a possibility to assemble a target device from components themselves, from modules, or to use a complete ready-made module, which is pluggable to a PC, often already with a SW included. SL102 and SL500A modules represent the „3-rd group" from this point of view and provide a ready-to-use RFID solution

• SL102, 125 kHz RFID reader - USB keyboard emulator. That means, that after SL102 appears as a keyboard after connecting to a PC (PC automatically recognizes it). SL102 operates in the way, that after reading an RFID tag, it sends its ID in the same form as if we typed it via a keyboard (and finished it be pushing „Enter"), i.e. every ID is in a new line. This system is very convenient for tracking of goods in production, in stock (stock in, stock out) but also for admission systems and many other.

• SL500A,Mifare 13,56 MHz reader/writer with the USB interface (virtual COM device). SL500A is able to read and write Mifare_1k, Mifare_4k, UltraLight and Mifare_ProX cards (ISO14443A, ISO1443B and ISO15693 protocols). SL500A is supplied with the software, including a DLL library and examples. SL500A can be used by a supplied SW, but you can also create your own application best suited to your needs.

Advantages / Features:

1. ready-to-use RFID solution with the USB interface
2. for 125kHz (SL102) and 13,56 MHz Mifare (SL500A) RFID
3. SW included (for SL500A)
4. easy application
5. very affordable price



The article with more information can be found at our website. Decode the link by QR code. The article contains also related video.

Order no.	Type	Description	Guide price
125894	SL040A	RFID desktop reader Mifare/Desfire, USB, 72x57x15mm	32,88 €
129829	SL102	RFID desktop reader for 125kHz EM4xxx Unique tags, USB	31,56 €
129834	SL500A-USB	RFID desktop reader/writer for Mifare/Desfire 13,56MHz	49,56 €

SSD Apacer SAFD 25 shifts the borders of speed

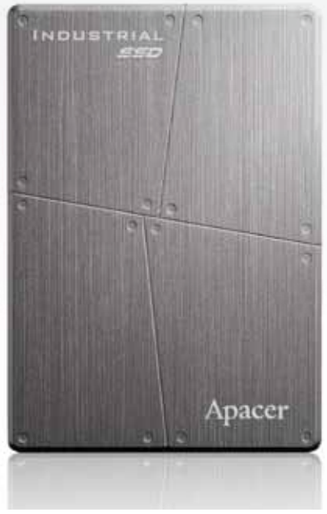
New SSD is designed to considerably boost data processing capability of enterprise servers.

Advantages / Features:

1. Perfect replacement of 2.5» SATA HDDs
2. available in capacities from 32 to 256 GB
3. Global Wear-leveling and Block Management
4. Built-in ATA Secure Erase and S.M.A.R.T. Functions
5. Intelligent Power Failure Recovery
6. Trim Command Support
7. industry-level extended-temperature range (-40°C to +85°C)

The article with more information can be found at our website. Decode the link by QR code.

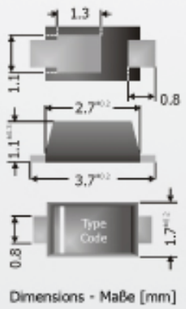
Apacer has launched out an SSD solution featuring the high-capacity, ultra-speed performance, high IOPs (Input/Output Operations Per Second) - SAFD 25P.
The standardized SAFD (Serial ATA Flash Drive) SSD consists of highly stable SLC (Single-Level-Cell) chip. The SAFD 25P with 2.5-inch 7+15 pin male connectors comes in capacities of 32GB, 64GB, 128GB and 256GB. With sequential read and write speeds of up to 265 and 230 MB/sec, respectively, it can enhance system performance and meet user needs for highly stable and reliable storage solutions.
In consideration of cost and capacity for customers, Apacer has introduced a MLC (Multi-Level Cell) Solution offering a cost structure advantage, SAFD 25P-M. The SAFD 25P-M has maximum capacities of 16GB, 32GB, 64GB, 256GB and 512GB, with sequential read/write speeds reaching up to 260 and 220 MB/sec, respectively. To work normally in harsh operating environments, Apacer SAFD 25P and SAFD 25P-M employ the guaranteed wide-temp chip, which means it can run stably under industry-level extended-temperature (-40°C ~ 85°C) environments for the highest reliability and longest lifespan.



SKL14 – 1A Schottky diode will fit everywhere

SKL14 can be used in switch-mode power supplies or as protection diodes and thanks their really miniature dimensions, they are also suitable at the lack of PCB space.

SMT Technologies enable a substantial increase of current density thanks to a very good heat transfer from a component to a PCB. Almost a zero length of „leads" of SMT components also features another positive aspects like a significant suppression of a parasitic inductancy and a possibility to construct circuits with a high components density and a minimal PCB tracks length, what significantly decreases an undesired radiation (EMI) for example in switch-mode power supplies.
A very small forward voltage drop <0.55V/1A and the speed of Schottky diodes make the SKL14 a universal diode suitable for example for rectifying, for SMPS or as a reverse polarity protection diode. A relatively high current is mainly enabled by a Power SOD-123 package with enhanced thermal properties.



We offer you Schottky diodes from our stock. Order number is 128014 and guide price is 0,06 EUR without VAT.

Advantages / Features:

1. universal Schottky diodes
2. 1A / 40V
3. miniature Power SOD-123 package
4. dimensions only 1.7 x 3.7 mm

The article with more information can be found at our website. Decode the link by QR code.

Right-angle LEDs enable soldering and assembly in one step

Kingbright

Right-angle LED indicators Kingbright L-1384 series provide a significantly more simple usage in comparison to standard wire-leaded LEDs.

If you have an application, where you need to solder LEDs with wire leads bent into a right angle or even to create a row of such LEDs, then the L-1384 series is the right choice for you.
L-1384 consists of a LED assembled into a plastic housing in the way that the wire leads are in the right angle. The fact that the wire leads are shaped from production, eliminates possible damage of the LED at shaping by a customer (malfunction caused by an inner tension can occur after some time). Moreover, LED leads are trimmed to a length suitable for soldering to a PCB. Plastic housing from the non-flammable nylon (UL94-V0) contains a knop and a groove enabling to interlock LEDs to each other. It also ensures a simple assembly and a trouble-free creation of a uniform row. Black color also increases contrast of the LED.
A relatively low forward voltage in a range of 1.85-2.2V (@20mA) enables a trouble-free usage even in the low voltage applications.

The article with more information can be found at our website. Decode the link by QR code.

Advantages / Features:

1. universal right angle LED indicators
2. possibility to interlock to rows
3. trimmed wire leads for a direct PCB mounting
4. contrast increasing black housing

Order no.	Type	Description	Guide price
49301	L-1384AL/1ID	LED 3mm 20mcd 625nm 60° red Right Angle	0,14 €
49302	L-1384AL/1GD	LED 3mm 15mcd 568nm 60° green Right Angle	0,13 €
54487	L-1384AL/1YD	LED 3mm 20mcd 60° yellow Righ	0,12 €

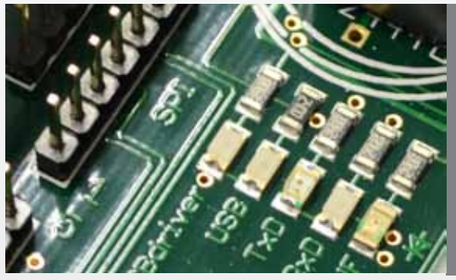
Simulate, test, develop

ELECTRONIC ASSEMBLY

In a wide portfolio of development tools for displays from company Electronic Assembly can be found evaluation boards for development of applications with eDIP displays family, including a connectivity via all common industrial interfaces.

Everyone who already ever designed his own development board knows, that it takes a lot of time to design, construct and assemble such a board. That´s why a ready-made development board at an affordable price is always a big simplification. EA EVALeDIP320-TFT70 development kit is a beautiful example of such a set, as it provides an immediate access to a full display functionality and it comes rich-equipped. At the same time it meets a criterion of an acceptable price, because the difference in price of the development board and the display itself is approx. 50 Eur only.
EA EVALeDIP320-TFT70 enables to develop applications in an elegant way and to use all possibilities of 5.7“ and 7“ Electronic Assembly displays. The development kit contains an evaluation board (USB), 7“ display with a touch panel, CD with SW and drivers, 5 small PCBs enabling a communication through industrial interfaces (RS232, RS485, I2C, SPI and RS232-CMOS level), USB cable and a line adapter. The development kit enables to also develop applications, which use input/output pins of the display - 8 push-buttons and 2 trimmers enable to control I/O pins and simulate analog signals, while 8 LEDs indicate logic levels at the corresponding outputs. An advantage of Electronic Assembly displays is, that black-anodized aluminium frames (bezels) are available for many types.

The article with more information can be found at our website. Decode the link by QR code.



Advantages / Features:

1. rich-equipped development kit
2. supplied with a touch display
3. supports 5 interfaces (RS232,RS485, I2C, SPI and CMOS RS232) + USB

Order no.	Type	Description	Guide price
121360	EAEDIPTFT70-ATP	LCM 800x480 7"TFT, LED BL +TP, RS232,I2C,SPI	388,80 €
128812	EASTARTEDIPTFT7	Evaluation kit for 7,0" TFT including display	450,00 €
128815	EA0FP801-70SW	Mounting bezel for eDIPTFT70 black anodized alumin	63,70 €

Add a sound to your devices – for an outstanding price

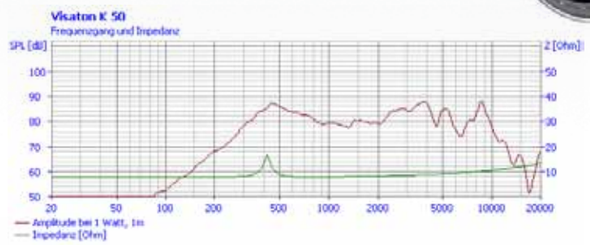
VISATON GERMANY

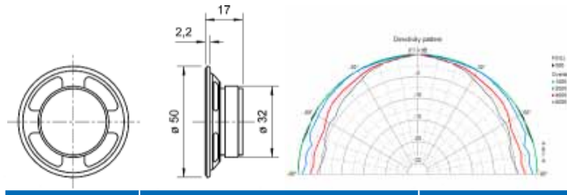
Reliable loudspeakers needn´t be expensive. K50/8 from company Visaton is a good example of a universal louspeaker suitable even to less favor conditions for a very affordable price.

K50/8 belongs to 5 cm (2“) industrial loudspeakers with an increased resistance. IP65 (from the side of membrane after building into an appropriate housing) says it all. Plastic membrane from mylar is UV-resistant and a metal basket ensure a long-term stable properties in a wide range of temperatures. K50 also meets another requirement important for the most of applications - small profile - 17mm only.
Thanks to its small dimensions, low profile, resistance and last but not least also an affordable price is the K50 a suitable component for a sound output of various devices like audio door-keeper, lifts, machines and control panels.

Advantages / Features:

1. universal loudspeakers for industrial devices
2. UV-resistant mylar membrane and a metal basket
3. operating temperature range -25 to +70°C
4. suitable for outdoor usage, IP65
5. excellent price / performance ratio





The article with more information can be found at our website. Decode the link by QR code.

Order no.	Type	Description	Guide price
46354	K50/8	Miniature speaker 2/3W 250-10000 D50H17 IP65	1,68 €
61401	K20.40/8	Miniature speaker 1/2W 300-20000Hz 40x20x8	3,60 €

A connection resistant to dust and water – Hirschmann CA series

HIRSCHMANN A BELDEN BRAND

If you want to have a certainty, that you´ve done a maximum for security of your connections, use the CA series connectors Hirschmann. Also this way can the features of these connectors be summarized.

CA series of round industrial connectors from company Hirschmann (a member of Belden group), meets all requirements asked from industrial connectors. Plastic body is from a durable polyamide reinforced by glass fibres. This material is in many cases more advantageous than a metal and also eliminates problems with a possible corrosion in a harsh environment (chemical industry, moisty environment, agriculture, renewable-energy sources, …). CA connectors are produced in versions CA3 (3 poles + 1PE) and CA6 (6 poles + 1PE). Similarly, like every decent connector, even the CA3/CA6 is designed in the way, that PE pins are the first to connect, what ensures a reliable protection already at connecting and the equalization of gnd potentials at the same time (increased ESD protection). Reliable electrical contact is ensured by silver-plated contacts. The main difference between CA3 and CA6 is the maximum current and voltage. It can be said, that it is worth to put your hands on the CA series.

Advantages / Features:

1. well-proven sturdy industrial connectors
2. 400VAC / 16A - CA3
3. 250VAC / 10A - CA6
4. IP67 protection
5. connector housing from an impact resistant PA reinforced by glass fibres

The article with more information can be found at our website. Decode the link by QR code.

Order no.	Type	Description	Guide price
36556	CA3GS	Circular Industry Connector M, Panel 3P+PE, IP67	4,00 €
36559	CA6GD	Circular Industry Connector F, Panel 6P+PE, IP67	5,90 €
49985	CA3LD	Circular Industry Connector F 3P+PE, IP67	6,70 €
50373	CA6LS	Circular Industry Connector M 6P+PE, IP67	6,20 €

Small signal relay AxW-K won´t refuse any signal

0.01mA, 10mV but even 2A are no problem for the AxW-K series Fujitsu relay. That´s why they´re a reliable component for a linear-undistorted transfer of diverse signals.

AxW-K relay series are well-proven 2-pole relays (DPDT) reliable switching even very small signals, already from 0,01mA/10mV DC, but they won´t be scared of 1A/30VDC (0,5A/125VAC). As, circuits for signal processing usually consist of SMD components, neither a relay intended for such applications shoudn´t be too high. With the height of only 5 mm, AxW-K relay series meet this requirement very well and a standard DIL pitch makes their usage and PCB design easier at the same time.

In the AxW-K series can be found several types - with 1.5V - 48V coils, and also bistable (latching) types (with 1 or 2 coils). Types A3W,A5W,AL-D5W-K,A12W and A24W are kept in stock, other types we´re able to provide you upon order. Besides telecommunication circuits, AxW-K series relays are ideal for switching of signals from a wide range of industrial detectors and sensors, audio devices and other.

Advantages / Features:

1. 2A signal relay DPDT (2CO)
2. able to switch even very small signals, from 0,01mA/10mV
3. very low profile - 5 mm
4. bifurcated contacts for a higher reliability
5. latching versions also available
6. low losses (cca <0.1dB/20 MHz)

The article with more information can be found at our website. Decode the link by QR code.

Order no.	Type	Description	Guide price
31808	A-12WK	Signal relay 12V 2A 2c 1028R	1,63 €
31809	A-24WK	Signal relay 24V 2A 2c 2880R	1,52 €
31810	AL-D5W-K	Signal relay latching type 5V 2A 2c 125R	4,34 €

Do you utilize ceramic capacitors for power supply filtering?

Thanks to their very low equivalent serial resistance (ESR), they provide a very worth function in power supply parts of various devices. In many cases, there´s no need to add any other types of filtering capacitors anymore.

SMD ceramic capacitors are nowadays commonly available in relatively very high capacities of units to tens of uF, while keeping small dimensions (0603 - 1210).

Advantages / Features:

1. very low ESR
2. outstanding filtering properties
3. high capacity at small dimensions
4. long lifetime

The article with more information can be found at our website. Decode the link by QR code.

Why to use a ceramic capacitor? First, it has a substantially lower value of ESR than electrolytic capacitors and also lower than tantalum ones. This is reflected in low losses and outstanding filtering properties even at high frequencies and high currents, what is especially beneficial at power supply of fast semiconductors and in switch-mode power supplies. Low power consumption of modern components enables to decrease an overall capacity of capacitors in a power supply part, that´s why in many cases a few uFarads are sufficient. A big advantage is a long lifetime too, because they don´t contain any liquid electrolyte. Naturally, in devices, where high current peaks occur, it would be economically inefficient to use ceramic capacitors only. In such cases a combination of ceramic and tantalum or electrolytic capacitors is ideal.

Order no.	Type	Description	Guide price
55343	K1206-22U-X5R-6,3V-10%	Multilayer Ceramic Chip Capacitor 1206	0,11 €
81379	K0805-10U-X5R-6,3V-10%	Multilayer Ceramic Chip Capacitor 0805	0,02 €
81480	K1206-10U-X5R-25V-10%	Multilayer Ceramic Chip Capacitor 1206	0,05 €

With the Hameg 8000 series devices you always have on a table all you need

A modular system of laboratory devices Hameg 8000 series is an ideal system for testing workplaces and school laboratories. At the same time it enables a very effective usage of space.

To have all we need on a table and to maintain enough space for a work - it is a stable challenge at a work with electronics. All this is solved by a Hameg 8000 series modular system.
The system consists of a HM8001-2, main unit, serving as a power supply and at the same time it is a holder - frame for any 2 instruments from the 8000 series (instruments don´t have their own power supply - for their operation they need to be inserted into the HM8001-2 basic module). Up to 5 such mainframes can be stocked at each other, what means up to 10 instruments. At the same time, it enables a big variability - for example usually a one mainframe + 2 instruments are usually sufficient for students in school.

Available modules:
HM8012 - 4½-Digit Programmable Multimeter (max value 49999) with 0.05% basic accuracy,
HM8018 - 25kHz LCR-Meter, measures L, C, R, ϑ, Q/D, |Z|, 0.2% basic accuracy,
HM8021-4 - 1.6 GHz Universal Counter, measurement range 0Hz...1.6GHz,
HM8030-6 - 10 MHz Function Generator, frequency range 50mHz...10MHz, output voltage up to 10Vpp,
HM8040-3 - Tripple Power Supply Unit 2x 0–20V/0.5A - 1x 5V/1A, 3-digit switchable displays,
HM800 - Blank Module intended for customized instrument construction.

Excellent properties are mainly proven in praxis, in a form of several 100 000 units sold all over the world.

Advantages / Features:

1. high quality of instruments (accuracy, ranges, usage)
2. possibility of up to 10 instruments at one place
3. 5 various instruments (multimeter, LCR meter, counter,

The article with more information can be found at our website. Decode the link by QR

Order no.	Type	Description	Guide price
48576	HM8001-2	Base unit for 2 modules series 8000	238,00 €
48578	HM8018	Module - LCR meter L, C, R, Q, D	420,00 €
72630	HM8030-6	Module - 10MHz Function Generator	345,00 €
80474	HM8040-3	Module - Power Supply Unit 2x0-20V/0,5A + 5V/1A	282,00 €

Isn´t it the right time to purchase a high-performance oscilloscope?

Digital storage oscilloscopes HAMEG HMO win many awards because of many reasons, which can be summarized into one sentence - an excellent price / performance ratio.

Inspite of advanced functions Hameg HMO series oscilloscopes maintain a simple intuitive control, thus a user can focus more on the measurement itself, than on a setting of the instrument. 6,5“ LCD screen (640x480) is able to display many details. In case, that even this resolution is not sufficient, it is only necessary to use the „Virtual Screen“ function, when the HMO offers a virtual resolution of 1200x640 and 20 divisions in the Y axis. All HMO series instruments feature a metal chassis and housings, that´s why they´re mechanically robust and well protected against disturbances (EMI). Hameg HMO oscilloscopes can be also equipped with options and accessories and they can be upgraded for decoding of UART, SPI, I2C and other buses. Selected types are on stock. As an authorized distributor of Rohde&Schwarz we´re also able to provide you with any instrument from the production portfolio of this world-class producer.

The article with more information can be found at our website. Decode the link by QR code.

Order no.	Type	Description	Guide price
103525	HMO722	Digital storage oscilloscope 2ch. 70MHz 2GSa/s 2MPts	1377,60 €
103527	HMO1022	Digital storage oscilloscope 2ch. 100MHz 2GSa/s 2MPts	1557,60 €
104741	HMO2024	Digital storage oscilloscope 4ch. 200MHz 2GSa/s 2MPts	2616,00 €

We became an authorized distributor of Rohde&Schwarz

Products of German company Rohde&Schwarz are already for almost 80 years the synonym of a top quality, precision and reliability.

We´re glad to announce you, that we became an authorized distributor of instruments of Rohde&Schwarz company - one of the most renowned world producer of instruments for Testing and measurement, Broadcasting, Secure Communications and Radiomonitoring. In these segments Rohde&Schwarz provides a huge spectrum of instruments for professional usage.

By the look to into the R&S products catalogue, you would probably quickly find out, that almost surely it also contains an instrument which is created for your purposes. In respect to a high accuracy and stability of parameters, many R&S instruments are able to serve not only for measurement, but also for calibration of other instruments.
Top quality mechanical construction, wide control possibilities and the precision of details are another common features of R&S instruments. Also from this reason Rohde&Schwarz provides up to 5-year warranty for oscilloscopes (after registering at R&S website you can prolong the warranty from 3 to 5 years, the offer is valid till 30.6.2013). Rohde&Schwarz provides many services like for example an on-site calibration - at customer.

Advantages / Features:

1. one the most renowned world producers
2. instruments for testing and measurement, broadcasting, secure communications and radiomonitoring
3. huge spectrum of highly specialized instruments up to 500 GHz

The article with more information can be found at our website. Decode the link by QR code.

Weller WX soldering stations are a masterpiece

Intelligent soldering stations WX series meet all what we might expect from an ultimate instrument.

The base of universal soldering and desoldering stations are WX1 a WX2 stations, with the possibility to connect 1 or 2 tools. WX1 enables to connect 1 tool with a maximum power of 120W and the WX2 station enables to connect two tools with a maximum power of 120W or one 200 W. An ultimate choice for rework workplaces are new WXD series stations, supporting the WXDP120 desoldering tool. A great advantage of the WX platform is a wide choice of tools and tips suitable for extra fine work with SMT components (WXMP tool, 40W), common work with the most of components (WXP65, WXP120) as well as for soldering of big joints and other components requiring a high heating power (WXP200). An invaluable helper at a work with components are the WXMT-MS (2x40W) SMT tweezers. Control interface of WX stations is done via a touch panel display. WX2 enables communication with other devices like control of WFE fume extracting station and a WHP preheating device.
The digital control electronics together with superior temperature sensor and heat-transfer technology guarantee precise temperature control at the soldering tip.

The article with more information can be found at our website. Decode the link by QR code.

Order no.	Type	Description	Guide price
92249	WX2021	Spájkovacia stanica digitálna 240W rúčka WXMP+WXMT	930,00 €
125973	WX1011	Spájkovacia stanica digitálna 200W 1x rúčka WXMP 55W	637,00 €
130438	WX1010	Spájkovacia stanica digitálna 200W rúčka WXP 12	587,00 €

Customer solution: Trouble-free RS232, RS422, RS485 – USB conversion

Integrated circuit FT232R is becoming legendary and we bring you another example of FTDI USB chips usage.

In praxis we often face a requirement to communicate with devices, which have serial ports RS232, RS422 and RS485. As many devices - mainly notebooks, already usually don´t have these ports, it is necessary to use a converter to convert serial port to USB.

Company ComErgon, s.r.o. is long-term dedicated to development and production of such converters. ComErgon has in its offer models for RS232, RS422 and RS485 interfaces. USB to RS422 and RS485 converters are produced with a 1kV galvanic isolation, as lines on the RS422 and RS485 side can be lead even on long distances and an eventual overvoltage could be able to damage end devices. Version RS232-USB is available with galvanic isolation but also without isolation.

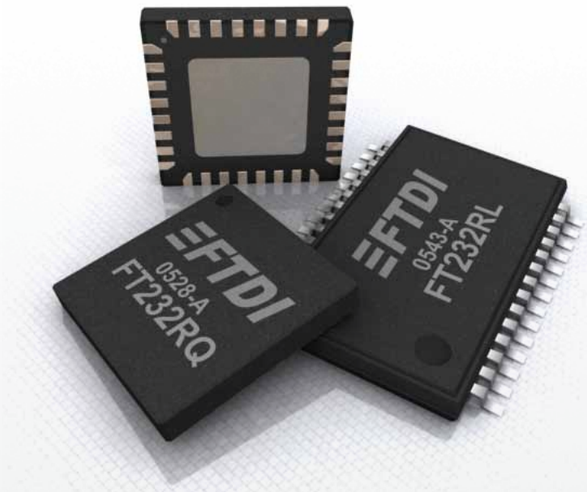
More detailed information and technical specification of these converters can be found at website www.comergon.sk
Company ComErgon focuses on development and production of converters for RS232, RS422, RS485, RS422/RS485 repeaters, serial to Ethernet interface modules, GPRS, Fiber Optic, 433MHz, current loop and other.

Advantages / Features:

1. supported OS: Windows, Linux, Mac OS X
2. USB chip: FTDI – FT232R
3. compatibility USB 1.1, USB 2.0
4. regularly updated drivers
5. up to 920kb/s communication speed
6. versions with galvanic isolation
7. prompt support
8. free-of-charge lend for testing
9. 3-year warranty

The article with more information can be found at our website. Decode the link by QR code.

Are you looking for an inspiration? Get familiar with solutions of our customers



We want to introduce to you in this article modern serial to USB converters. USB connectivity is realized via a well-proven FTDI chip FT232R. This chip is intended for all applications, where it is necessary to add a reliable USB connectivity with minimum development costs.

Orders and detailed information:
ComErgon, s.r.o.
Čachtická 23
831 06 Bratislava
Slovakia
tel: +421 2 448 890 90
e-mail: office@comergon.sk
web.: www.comergon.sk

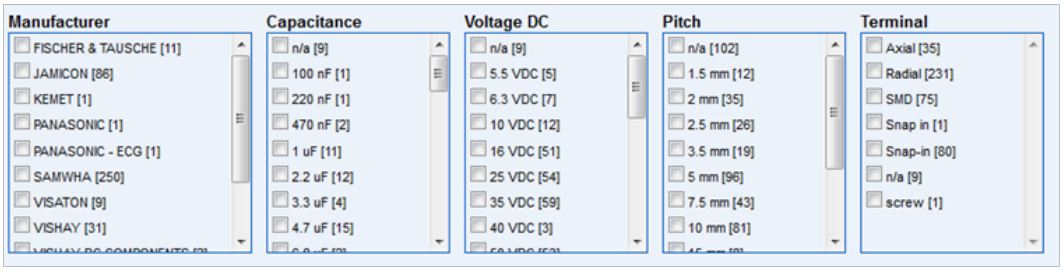
New e-shop launched!

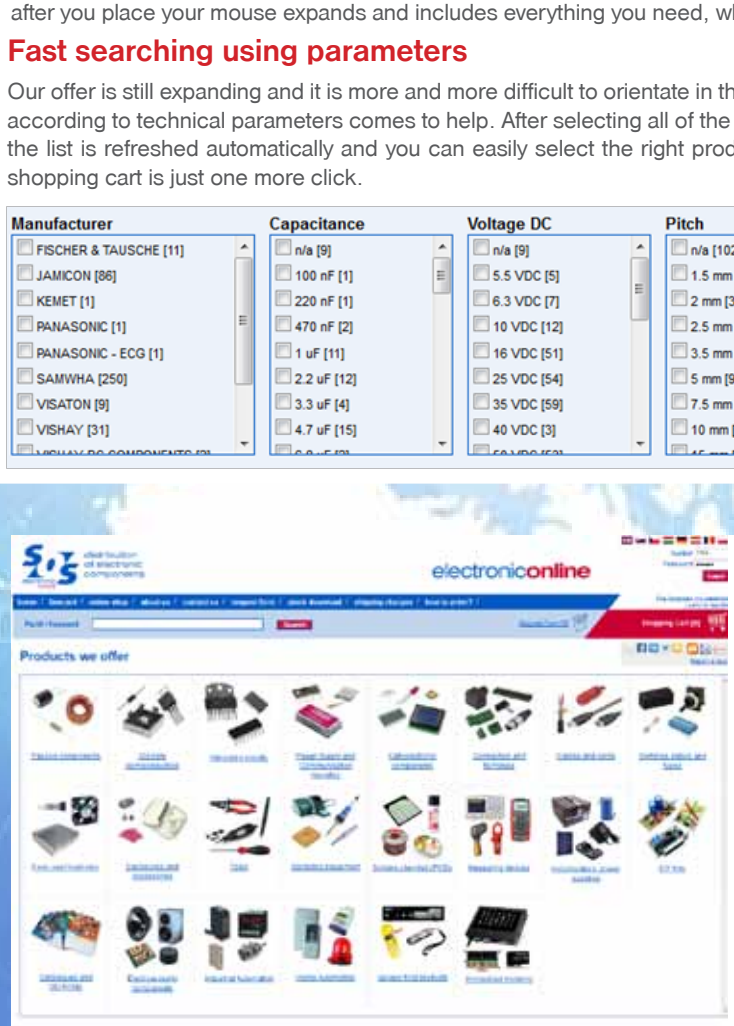
Unification of the two systems into one

Work in the new e-shop gives you the advantage of working and orientate in one environment. No more switching between two windows! Home page is always only one, the top menu is still the same,product tree is only one. There are differences before and after logging only in addition of personalized items (archive of purchase orders, invoices, account settings etc.). They are also placed at the usual place - right top. Menu after you place your mouse expands and includes everything you need, which is linked to your account.

Fast searching using parameters

Our offer is still expanding and it is more and more difficult to orientate in the lists. Therefore, filtering of lists according to technical parameters comes to help. After selecting all of the wanted available filtering options the list is refreshed automatically and you can easily select the right product for you. Then putting it into shopping cart is just one more click.





Images in product tree

If you can better orientate in images rather than texts, you will surely appreciate this option while browsing our product range. Every group of products is displayed with its name and with image.

We believe that you will get to like the new environment and functions and that your work will become faster and more pleasant at the same time. If you have any suggestions or comments, do not hesitate to contact us at our email address: webmaster@soselectronic.com

Catalogue for developers is already online at http://solutions.soselectronic.com

Our new catalogue released in autumn 2012 is designed mainly for developers. We now also offer its online version.

When can you use such catalogue?

When you are at the beginning of development and you are searching for solutions concerning particular part of application. The catalogue is divided into 9 chapters. When you click on a chapter you can choose more precise specification (via menu) and then read the basic information about given solution. Offer of brands which we deliver in the particular area and the possibility to click on specific products we offer are important parts of our website. Advantage of the online version is its translation into 7 languages, including Slovak and Czech language. Printed version is only in English.